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Creative Biogene

As a globally leading biotechnology innovator, Creative Biogene integrates gene editing as its cornerstone and bioscience as its frontier, delivering end-to-end solutions across gene therapy, drug development, agricultural biotechnology, and industrial microbial engineering. With a commitment to accelerating scientific discovery, Creative Biogene bridges the gap between research and real-world applications through its comprehensive technology platforms and tailored services, positioning themselves as a trusted partner in both CRO and CDMO domains.

Core Competencies & Service Architecture

Creative Biogene has established a comprehensive biotechnology service framework. This cohesive architecture ensures both robust functionality and adaptability in meeting diverse client needs.



Creative Biogene

Creative in Genes, Boundless in Bioscience

Category	Service	Description
Gene Editing	Precision Genome Engineering	Leveraging CRISPR-Cas9 and base editing technologies for customized services in gene knockout, knock-in, and point mutations across mammalian cells, plants, and industrial microbes. HIEF™ platform enables rapid stable cell line generation for antibody drug development, CAR-T/NK cell therapies, and recombinant protein production.
	Viral Vector Solutions	Specializing in high-titer viral vector production (AAV, lentivirus, adenovirus) for gene therapy and vaccine development. Key offerings include tissue-specific AAV serotypes, oncolytic viruses, and GMP-grade lentiviral vectors for clinical trials.
RNA Technology	RNA Synthesis & Delivery	Supports full-spectrum nucleic acid drug development, including mRNA/circRNA design, chemical modifications (e.g., GalNAc conjugation, 5'-capping), and advanced delivery systems (lipid nanoparticles, exosomes, polymer-based carriers). Includes siRNA therapeutics, self-amplifying RNA vaccines, and RNA-based gene editing tools.
	Functional & Mechanistic Studies	RNA-seq, single-cell sequencing, and spatial transcriptomics services for deep insights into gene regulation, with shRNA/miRNA libraries to facilitate high-throughput target validation.
Microbial Engineering	Strain Development & Fermentation	Engineering high-performance microbial strains (<i>E. coli</i> , <i>Bacillus</i> , <i>Streptomyces</i>) for enzyme production, recombinant biologics, and next-generation probiotics, with scalable fermentation from bench-scale to 1kL bioreactors.
	cGMP Compliance	Services include 16S/ITS sequencing, MALDI-TOF MS-based identification, endotoxin testing, and stability studies, ensuring regulatory compliance for industrial and pharmaceutical applications.
Preclinical Development	Target-based Drug Screening	Screening and profiling across hot drug targets including GPCRs, ion channels, kinases, phosphatases, Nuclear receptors, Proteases, E3s, DUBs, Methyltransferase, Demethylase, etc.
	<i>In Vivo/In Vitro</i> Models	PDX/PDO tumor models, zebrafish toxicity platforms (cardio/hepatic/renal assessments), and metabolic disease models (NAFLD, diabetes) to accelerate efficacy and safety profiling.
	ADME-Tox & Pharmacokinetics	Integrated services include CYP450 phenotyping, PAMPA permeability assays, plasma protein binding studies, and <i>in vivo</i> PK/PD modeling to support IND-enabling workflows.

Core Product Portfolio

Creative Biogene provides a diverse range of biotechnology products, including transfected stable cell lines, premade viral particles, VLPs, cloning tools, oligonucleotides, enzymes, RNA interference reagents, adjuvants, and lab equipment. Designed for applications in gene editing, vaccine development, drug screening, and biopharmaceutical production, our products support cutting-edge research.



Global Presence & Strategic Collaboration

Market Reach

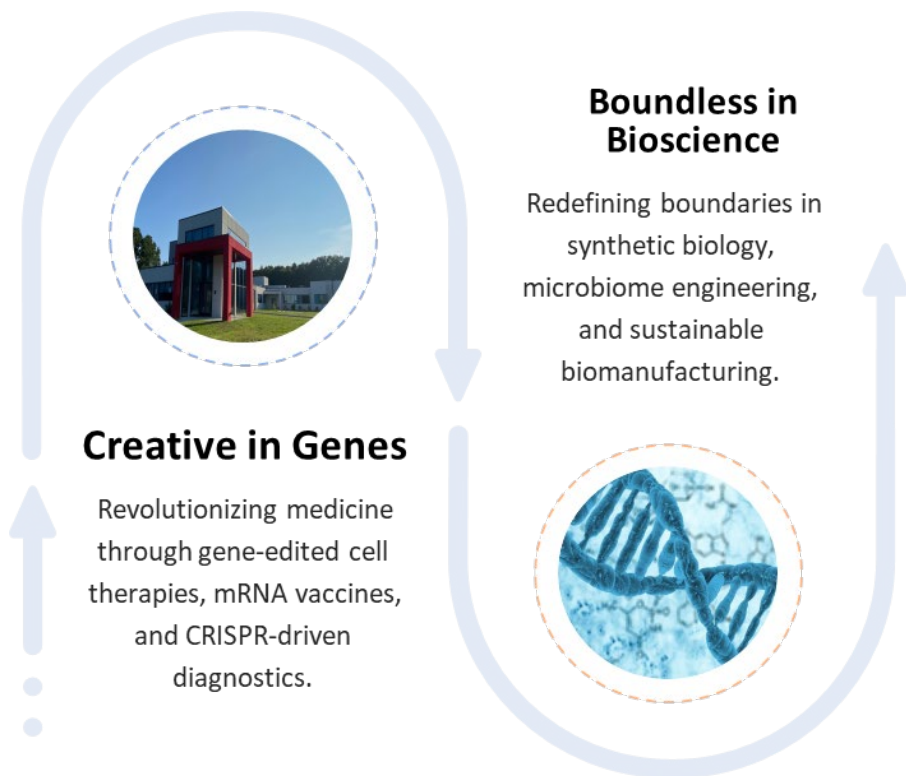
Serving 90+ countries through partnerships with Pfizer, Merck, Johnson & Johnson, and academic leaders like Harvard and Stanford. Our Asia-Pacific network is strengthened by local distributors.

Quality Assurance

ISO-compliant workflows, automated QC systems (LC-MS/MS, flow cytometry), and GMP pilot facilities with 200L stainless-steel bioreactors ensure product consistency and regulatory compliance.

Innovation Ecosystem

Focused on gene therapy, synthetic biology, and RNA medicine, we develop enabling tools (e.g., IntegrateRNA platform, CRISPR libraries) to shorten drug development timelines.



Vision & Mission

Guided by its mission to “Accelerate Discovery, Transform Lives”, Creative Biogene empowers partners to navigate the complexities of biopharmaceutical innovation—from target validation to commercial-scale production—with agility, expertise, and unwavering commitment to quality.

Contact

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